UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/607,551	06/27/2003	Choong Jae Lee	DPO-0005	7421

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EXAMINER
GESESSE, TILAHUN

ART UNIT	PAPER NUMBER
2618	

DATE MAILED: 11/14/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

		Application No.	Applicant(s)
		10/607,551	LEE, CHOONG JAE
Office Action Summary		Examiner	Art Unit	
		Tilahun B. Gesessse	2618	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>19 October 2006</u>.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-21 and 23-31* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-7,16-21,24-28 and 31* is/are rejected.

7)☐ Claim(s) *8-15,29-30* is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All b)☐ Some * c)☐ None of:

        1.☐ Certified copies of the priority documents have been received.

        2.☐ Certified copies of the priority documents have been received in Application No. _____.

        3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO/SB/08)
    Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .

5)☐ Notice of Informal Patent Application

6)☐ Other: _____.

DETAILED ACTION

Response to Amendment

1.   Applicant's request for reconsideration of the finality of the rejection of the last

Office action is persuasive and, therefore, the finality of that action is withdrawn.

Response to Arguments

2.   Applicant's arguments with respect to claims 1-7,16-21,24-28,31 have been

considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

3.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set
> forth in section 102 of this title, if the differences between the subject matter sought to be patented and
> the prior art are such that the subject matter as a whole would have been obvious at the time the
> invention was made to a person having ordinary skill in the art to which said subject matter pertains.
> Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-7,16-21,24-28 and 31 are rejected under 35 U.S.C. 103(a) as being

unpatentable over Tatehana et al (US 6,879337) in view of Kim (US 6,999,802).

Claims 1,25-26, **Tatehama** teaches a mobile terminal, (see figure 1 and abstract)

comprising:

Tatehama teaches a body part (see item #1 of figure 1).

Tatehama teaches a folder part (see item #2 fig.1).

Tatehama teaches a hinge part (see item #3 of fig. 1) provided where the body

part (1) and the folder part (2) meet where the folder part is configured to rotate about

an axis (fig.1) of rotation disposed along the hinge part to rotate between a first (see

fig. 1) and a second position (see fig. 1) relative to the body part (col. 1 line 47-col.2, line 23).

Tatehama teaches a camera, (60) wherein the camera protrudes from the mobile terminal when the folder part is in the first position (column 1, line 47-col.2, line 23) and wherein the camera is inserted within the mobile terminal when the folder part is in these second position (see column 1 line 47-23 and figure 1). Tatehama does not expressly teach camera is configured to move longitudinally along the axis of the mobile terminal.

However, Kim teaches camera is configured to move longitudinally direction along the axis of the mobile terminal (see col. 4, lines 46-51 and fig.2).

Both Tatehama and Kim teach mobile terminals with camera on the hinge, then it would have been obvious to an artisan of ordinary to modify park mobile terminal with camera on hinge to move longitudinally along the axis of rotation to extend outwardly, as evidence by Kim, in order to zoom out of the storage and user takes a snap shot picture at an angle of user focuses.

Claim 2. **Tatehama teaches** a camera installing part (3) configure to install said Camera in the mobile terminal (see figure 1) wherein the camera is configured to extend of the camera (the lens housing includes a camera lens assembly and an opening through which a lens of the camera lens assembly is exposed to the outside, abstract) installing part when the folder part is unfolded away from the body part, and the camera is inserted into the camera installing part when the folder part is folded toward the body part (see column 1, line 46- col. 2 lines 23 and figure 1).

Claim 3, **Tatehama teaches** the camera installing part is formed in a hinge pan

formed where the body part and the folder part meet (hinge axis 3, see figure 1).

Claim 4. **Tatehama** teaches the hinge part (3) comprises a folder hinge part (3)

and a body hinge part (see figure 1) in which from folding between the body part and

folder part the hinge rotates (see col.2, lines 14-23).

Claim 5. **Tatehama** teaches a camera case provided adjacent the hinge part

(see figure 1) in which camera is located on the hinge part.(see fig.1 part of 2 and 1).

Claim 6, **Tatehama teaches** a camera module having a lens and an electronic

circuit inserted therein (column 1 line 47 through col. 2 line 23)

Tatehama teaches camera module, wherein the camera module moves when

the folder part moves (see abstract and column 1 line 47 –col.2 line 23 and figure 1).

Claim 7. **Tatehama teaches** the camera module is coupled with the camera

shaft and the camera module rotates about the camera shaft (see cylinder abstract and

column 1, line 47 col. 2 line 23 and figure 1).

Claim 16. **Tatehama teaches** a camera case formed next to the hinge part (see

figure 1).

Claim 17, **Tatehama teaches** the camera selectively protrudes when the folder

part is in the first position according to a user action (column 2,lines14-23).

Claims 18-19,21,27-28. **Tatehama teaches** a mobile communication terminal,(

see figure 1) comprising:

Tatehama teaches a first body part; a second body part; a hinge part connecting

the first body pan and the second body part; (see figure 1) a camera holder enclosed in

the hinge part (see lens at the hinge , see figure 1); and a camera in the camera holder,

wherein when the first body pan and the second body part are at a first predetermined

angle relative to one another(column 2, lines 14-23), the camera the camera holder, and

wherein when the first body part and the second body part are at a second

predetermined angle relative to one another, the camera is embedded within the

camera holder (column 3 lines 1-11 and figures 1 and 2).

Tatehama does not expressly teach camera is configured to move to longitudinal

direction from the mobile terminal.

However, Kim teaches camera is configured to move longitudinally direction

along the axis of the mobile terminal (see col. 4, lines 46-51 and fig.2).

Both Park and Kim teach mobile terminals with camera on the hinge, then it

would have been obvious to an artisan of ordinary to modify park mobile terminal with

camera on hinge to move longitudinally along the axis of rotation to extend outwardly ,

as evidence by Kim, in order to zoom out of the storage and user takes a snap shot

picture at an angle of user focuses.

Claim 20, Tatehama teaches the first predetermined angle is greater than the

second predetermined angle (column 2, lines 14-23).

Claims 24,31 Tatehama teaches a method of operating a mobile terminal (see

figure 2), comprising:

Tatehama teaches providing a body part (see figure 1).

Tatehama teaches a folder part to the body part to move between an open and a closed position (see figure 1).

Tatehama does not expressly teach camera is configured to move to longitudinal direction from the mobile terminal.

However, Kim teaches camera is configured to move longitudinally direction along the axis of the mobile terminal (see col. 4, lines 46-51 and fig.2).

Both Park and Kim teach mobile terminals with camera on the hinge, then it would have been obvious to an artisan of ordinary to modify park mobile terminal with camera on hinge to move longitudinally along the axis of rotation to extend outwardly , as evidence byKim, in order to zoom out of the storage and user takes a snap shot picture at an angle of user focuses.

Allowable Subject Matter

Claims 8-15,23,29-30 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tilahun B Gesesse whose telephone

number is 571-272-7879. The examiner can normally be reached on flexible

schedule.

If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Edward Urban can be reached on 571-272-7899.

The Central FAX Number is 571-273-8300. For patent related

correspondence, hand carry deliveries must be made to the Customer Service

Window (now located at the Randolph Building, 401 Dulany Street, Alexandria,

VA 22314), and facsimile transmissions must be sent to the Central FAX number,

unless an exception applies.

Information regarding the status of an application may be obtained from

the Patent Application Information Retrieval (PAIR) system. Status information

for published applications may be obtained from either Private PAIR or Public

PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-

direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-

free).

TG

11/3/06

TILAHUN GESESSE
PRIMARY EXAMINER